



Payload Operations Integration Center Remote Operations Capabilities



Michelle Schneider
NASA/MSFC/FD41
256-544-1535
Michelle.Schneider@msfc.nasa.gov

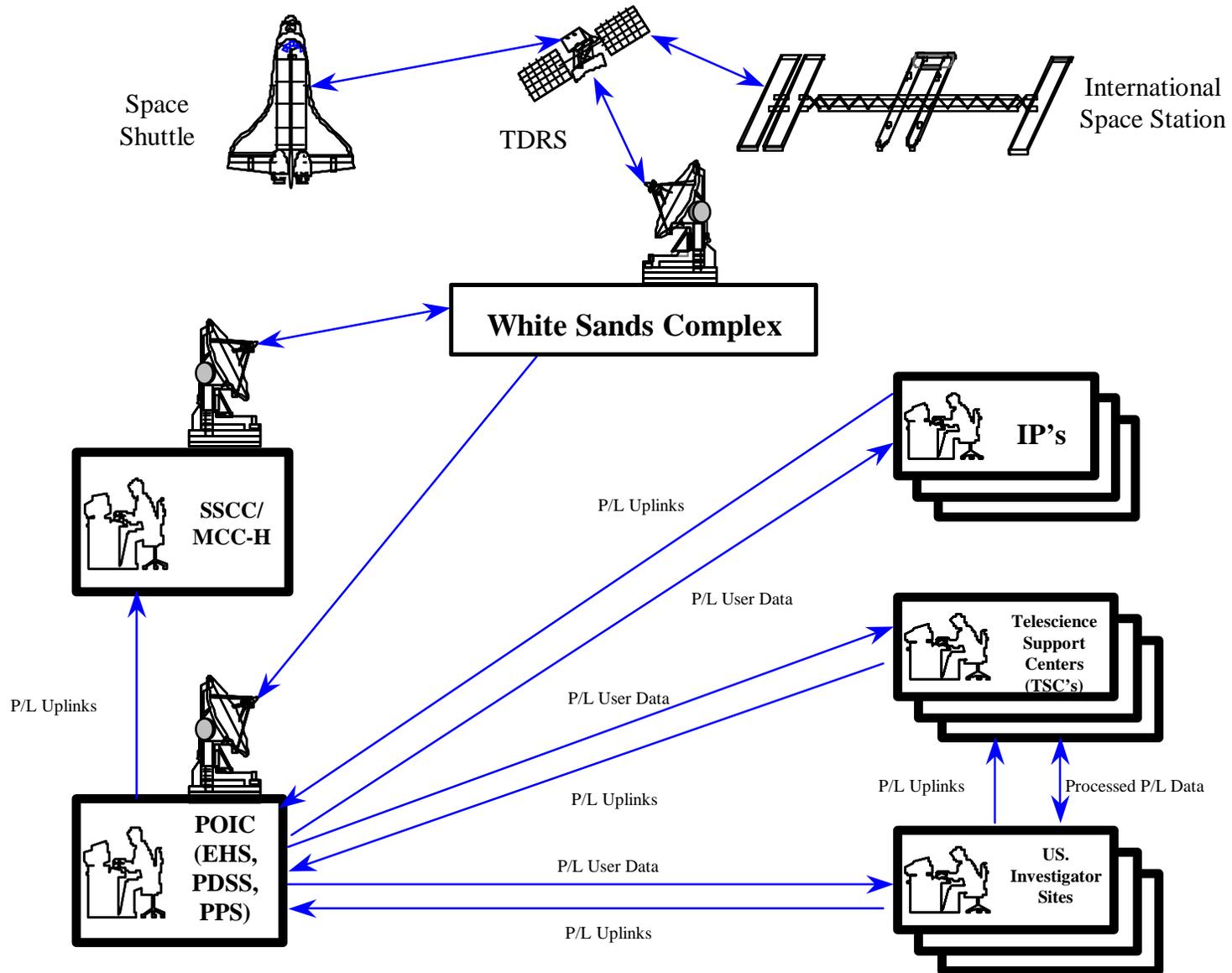


Topics



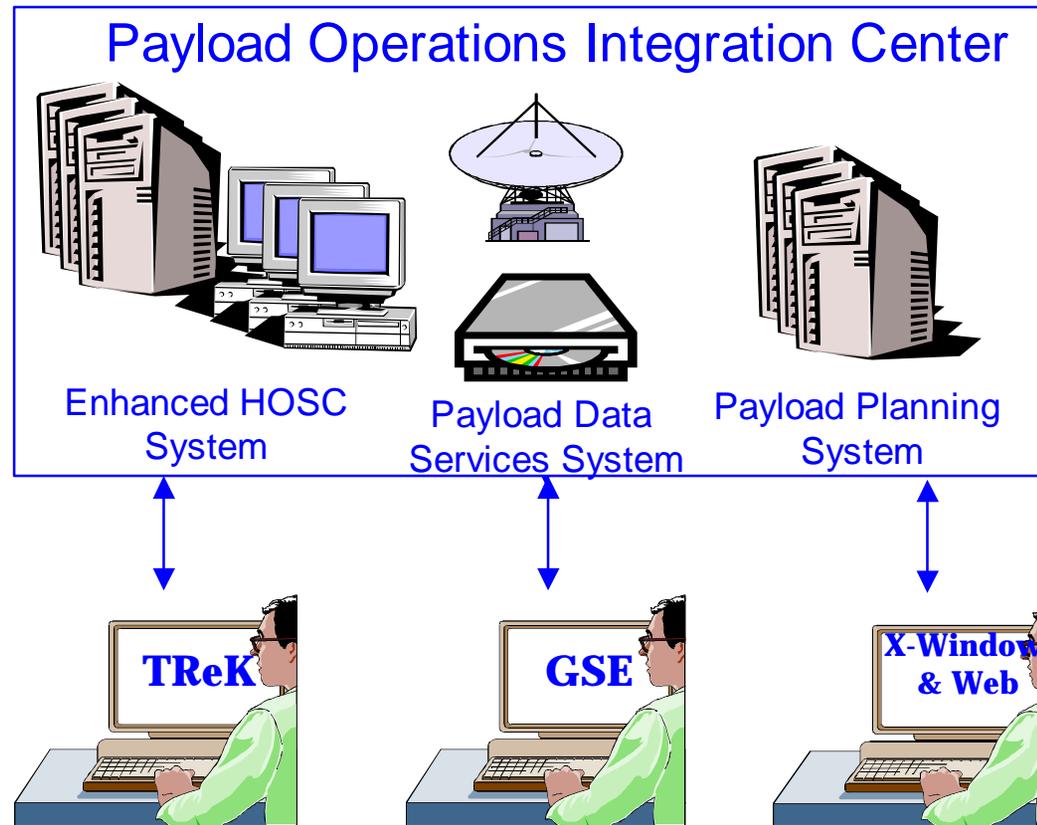
- ISS Payload Telemetry and Command Flow
- Payload Operations Options
- Telescience Resource Kit (TReK)
- Telemetry Services
- Command Services
- TReK Customer Support

ISS Payload Telemetry and Command Flow





Payload Operations Options



These options can be located at the United States Operations Center (USOC), a Telescience Support Center (TSC), or any other remote location.



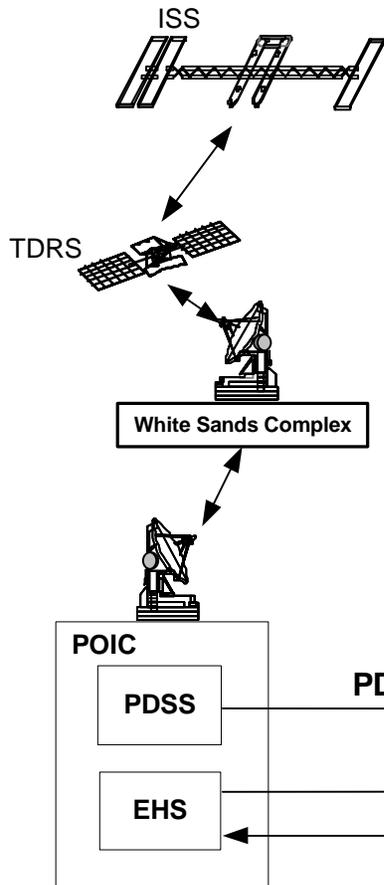
Telescience Resource Kit



- TReK is a suite of software applications that provide:
 - Local ground support system functions.
 - An interface with the POIC to utilize POIC remote ground support system services.
- TReK is suitable for individuals or small payload teams that need to monitor and control low/medium data rate payloads.
- The initial cost of a TReK system is less than \$10,000.

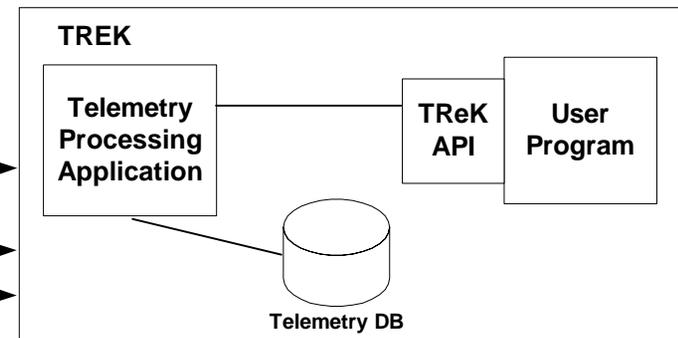


Telemetry Services



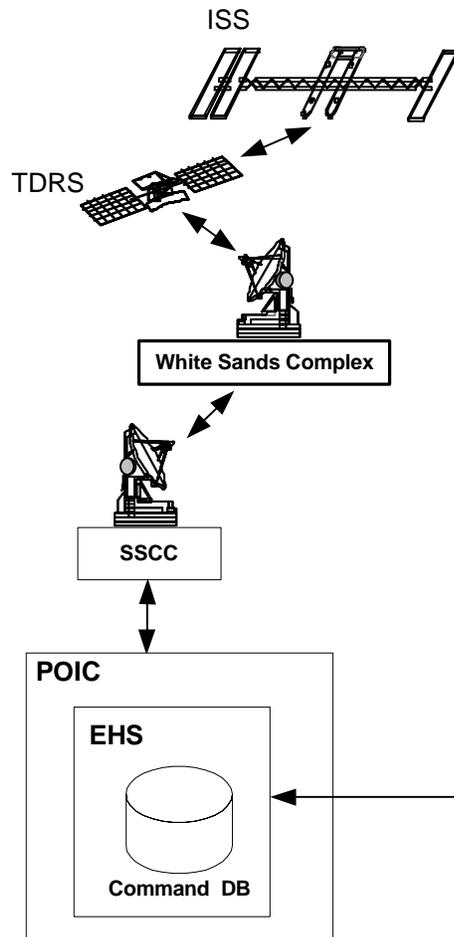
TReK Telemetry Capabilities:

- * Receive, Process, Record, Forward, and Playback Telemetry Packets.
- * Display, Record, and Monitor Telemetry Parameters
- * View Incoming Telemetry Packets (Hex/Text Format)
- * Telemetry Processing Statistics



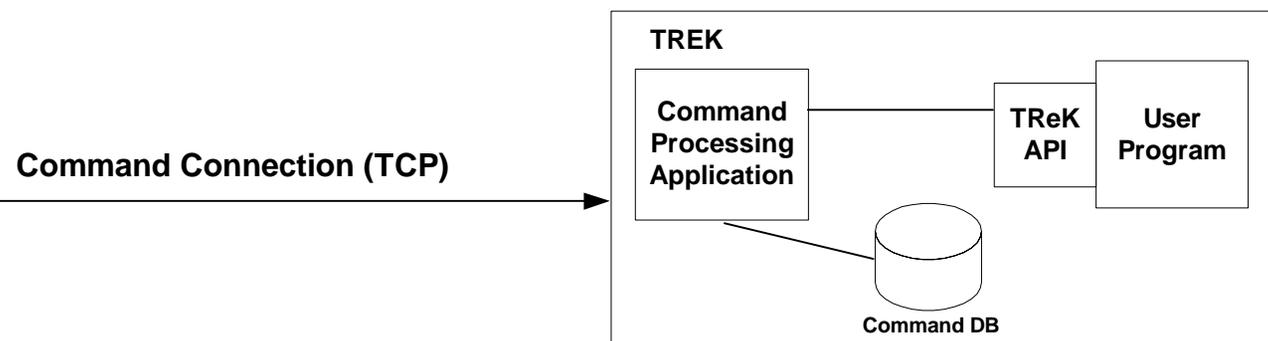


Command Services



TReK Command Capabilities:

- * Command System Status & Configuration Information
- * Remotely Initiated Command (Cmd Built from POIC DB)
- * Remotely Generated Command (Cmd Built at Remote Site)
- * Command Updates
- * Command Responses
- * Command Session Recording/Viewing
- * Command Track
- * Command Statistics





TReK Customer Support



- The TReK Team provides the following types of support to TReK customers:
 - Beta Software Testing Program
 - TReK Web Site (<http://trek.msfc.nasa.gov>)
 - Help Desk (Technical Support Phone Line -- 544-3521)
 - E-Mail Technical Support Help (trek.help@msfc.nasa.gov)